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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/853,465	05/11/2001	Geoffrey S. Strongin	2000.039500/TT3768	6696

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EXAMINER
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TRAN, ELLEN C

ART UNIT	PAPER NUMBER
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2134

DATE MAILED: 06/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/853,465

Applicant(s)

STRONGIN, GEOFFREY S.

Examiner

Ellen C. Tran

Art Unit

2134

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 March 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-103 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-103 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

1. This action is responsive to communication: amendment filed on 14 March 2005, the original application was filed on 11 May 2001, with acknowledgement of continuing file date of 10 May 2001.

2. Claims 1-103 are currently pending claims 1, 32, 39, 51, 55, 64, 66, and 97 are independent claims. The amendment to the claims 16, 24, 31, and 81 for the addition of a period is accepted and corresponding objection withdrawn.

**Response to Arguments**

3. In response to applicants argument to the 112 Objection on page 5 *"In the Office Action, claims 1-31, 39-50, 51-61 and 66-77 were rejected under 35 U.S.C. § 112, second paragraph, allegedly for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention. In particular, the Examiner alleges that the text "retrieving at least a portion of the data stored in the first location using the secret" does not make sense. The Examiner assumes that the line should be interpreted as "retrieving at least a portion of the data stored in the location different from the first location using the secret. Applicant respectfully disagrees and notes that both the retrieve data that has been stored in the first location. See Patent Application, page 71, line 16 – page 72, line 16, and Figure 27. Thus the Applicant respectfully submits that these claims are clear and furthermore, that the Examiner's interpretation of these claims is incorrect".*

Examiner thanks applicant for pointing out interpretation error. However, notice how the applicant went as far as page 71 of the specification in order to identify where

Art Unit: 2134

the first independent claim is represented. On 25 May 2005, the Examiner called applicant's patent agent, Mark Sincell, and ask for more detail what the independent claim was accomplishing. The agent indicated that the independent claim was further expanded by the remaining claims.

After a second review of the claims in light of the specification as well as the response to Office Action of 15 December 2004, additional 112 rejections apply because the wording of the specification and claims are vague and indefinite. **The application as submitted should give a clear and concise understanding of the invention.**

The broad scope of the claims does not correlate to the specification. The beginning of the detailed description section (see pages 13-15) describes or contains the following terms: SMM, SMI, north/south bridge, BIOS, boot, x86 processors, and signals. These terms do not provide clear and concise understanding of the invention claimed. Notice none of the terms mentioned in the beginning pages of the detailed description are included in the independent claims.

4. Applicant's arguments with respect to the 102(e) Rejection filed 14 March 2005, have been fully considered but they are moot due to new grounds of rejection.

***Claim Rejections - 35 USC § 112***

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Art Unit: 2134

6. Claims 1-103 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The specification as written does not describe what data or secret is contained in the first location. In addition the specification does not explain what function or use is performed when retrieving the data from the first location. In fact the initial pages of the specification describe a "System Management Mode (SMM)" operation, SMI, x86 processor, BIOS, and north/south bridge. None of these initial terms are in the independent claims.

7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

8. Claims 1-103 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In the claims there is no indication of what the secret is (i.e. a key, a code, a PIN, etc...) in addition there is no indication what the data contains or what function it performs.

***Claim Rejections - 35 USC § 102***

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language

10. **Claims 1-103** are rejected under 35 U.S.C. 102(e) as being anticipated by Vu et al. U.S. Patent No. 6,557,104 (hereinafter '104).

**As to independent claim 32, “A method of securing data in a personal computer system, the method comprising:”** is taught in '104 col. 3, lines 53-67;

**“storing a secret within a first location; and storing code different from the secret within the first location”** is shown in '104 col. 4, lines 21-67;

**“wherein the code is configured to provide access to data stored in the first location when processed in association with the secret”** is disclosed in '104 col. 5, lines 30-47.

**As to dependent claim 33,** this claim contains substantially similar subject matter as claim 32 and is rejected along similar rationale.

**As to dependent claim 34, “wherein the memory is a read-only memory (ROM); wherein storing a secret within the memory comprises storing a secret within the ROM; and wherein storing code different from the secret within the memory comprises storing code different within secret within the ROM; and wherein the code is configured to provide**

access to data stored in the ROM when processed in association with the secret” is shown in ‘104 col. 4, lines 21-67.

As to dependent claim 35, “wherein the data comprises basic input-output system (BIOS) data and the ROM is a BIOS ROM: configured to store the BIOS data; wherein storing a secret within the ROM comprises storing a secret within the BIOS ROM; wherein storing code different within secret within the ROM comprises storing code different within secret within the BIOS ROM; and wherein the code is configured to provide access to BIOS data stored in the BIOS ROM when processed in association with the secret” is disclosed in ‘104 col. 4, lines 21-67.

As to dependent claim 36, “wherein storing a secret within the memory comprises storing the secret inside the data within the memory” is taught in ‘104 col. 4, lines 21-67.

As to dependent claim 37, “wherein storing a secret within the memory and storing code different from the secret within the memory comprises storing the secret inside the code within the memory” is taught in ‘104 col. 4, lines 21-67.

As to dependent claim 38, further comprising: providing a lock bit associated with the data stored in the memory that when set provides an indication that the data stored in the memory is secured” is shown in ‘104 col. 4, line 63 through col. 5, line 8.

As to independent claim 55, “A method of securely accessing data in a personal computer” is disclosed in ‘104 col. 3, lines 53-67;

“the method comprising: step for reading a secret from a first location; step for securing the secret in a secure location different from the first location” is taught in ‘104 col. 4, lines 21-67;

**“and step for retrieving at least a portion of the data stored in the first location using the secret”** is disclosed in ‘104 col. 5, lines 30-47.

**As to dependent claim 56, “further comprising: step for reading code from the first location; wherein the code is different from the secret and different from the data stored in the first location”** is taught in ‘104 col. 4, lines 21-67;

**“wherein the step for retrieving at least the portion of the data stored in the first location using the secret comprises step for retrieving at least the portion of the data stored in the first location using the code and the secret”** is disclosed in ‘104 col. 5, lines 30-47.

**As to dependent claim 57, “further comprising: step for unlocking a lock bit associated with the data stored in the first location prior to the step for retrieving at least the portion of the data stored in the first location using the secret”** is taught in ‘104 col. 4, lines 21-67.

**As to dependent claim 58, “further comprising: step for processing the secret using the code; wherein the step for unlocking the lock bit associated with the data stored in the first location comprises step for unlocking the lock bit associated with the data stored in the first location in response to the step for processing the secret using the code”** is shown in ‘104 col. 5, lines 30-47.

**As to dependent claim 59, “further comprising: step for storing the secret within the first location securely; step for storing data within the first location securely; and step for storing code different from the secret and different from the data within the first location securely”** is disclosed in ‘104 col. 4, lines 21-67.



**As to dependent claim 60, “further comprising: step for unlocking a lock bit associated with the data prior to the step for retrieving at least the portion of the data from the first location using the secret” is shown in ‘104 col. 4, lines 21-67.**

**As to dependent claim 61 and 62, these claims contain substantially similar subject matter as claim 55 and are rejected along the same rationale.**

**As to dependent claim 63, “further comprising: step for providing a lock bit associated with the data that when set provides an indication that the data stored in the first location is secured” is disclosed in ‘104 col. 4, lines 21-67.**

**As to independent claim 1, this claim contains substantially similar subject matter as claim 55 and is rejected along the same rationale.**

**As to dependent claim 15, this claim contains substantially similar subject matter as claim 59 and is rejected along the same rationale.**

**As to dependent claim 2, 16, 26, and 27, these claims contain substantially similar subject matter as claim 55 and are rejected along the same rationale.**

**As to dependent claim 17, “wherein the memory is a read-only memory (ROM); wherein storing a secret within the memory comprises storing a secret within the ROM; wherein storing data within the memory comprises storing data within the ROM; wherein storing code different from the secret and different from the data within the memory comprises storing code different within secret and different from the data within the ROM; wherein securing the secret in a secure location different from the memory comprises securing the secret in a secure location different from the ROM; and wherein retrieving at least a portion of the data from the memory using the secret comprises**

Art Unit: 2134

retrieving at least a portion of the data from the ROM using the secret” is taught in ‘104 col. 4, lines 21-67.

As to dependent claim 18, “wherein the data comprises basic input-output system (BIOS) data and the ROM is a BIOS ROM configured to store the BIOS data; wherein storing a secret within the ROM comprises storing a secret within the BIOS ROM; wherein storing data within the ROM comprises storing data within the BIOS ROM; wherein storing code different within secret and different from the data within the ROM comprises storing code different within secret and different from the BIOS data within the BIOS ROM; wherein securing the secret in a secure location different from the ROM comprises securing the secret in a secure location different from the BIOS ROM; and wherein retrieving at least a portion of the data from the ROM using the secret comprises retrieving at least a portion of the BIOS data from the BIOS ROM using the secret” is shown in ‘104 col. 4, lines 21-67.

As to dependent claim 19, “wherein storing a secret within the memory and storing data within the memory comprises storing the secret inside the data within the memory” is disclosed in ‘104 col. 4, lines 21-67.

As to dependent claim 20, “wherein storing a secret within the memory and storing code different from the secret and different from the data within the memory comprises storing the secret inside the code within the memory” is taught in ‘104 col. 4, lines 21-67.

As to dependent claims 21 and 22, these claims are substantially similar to claims 56 and 57; therefore they are rejected along the same rationale.

As to dependent claim 23, “wherein reading the secret from the memory comprises reading the secret from the memory during a boot sequence; and wherein securing the secret in a secure location different from the memory comprises storing the secret in SMM memory space” is shown in ‘104 col. 4, lines 21-67.

As to dependent claim 24, “wherein retrieving at least a portion of the data from the memory using the code and the secret further comprises: processing the code; and transmitting at least an indication of the secret to the memory” is disclosed in ‘104 col. 4, lines 21-67.

As to dependent claim 25, “wherein retrieving at least a portion of the data from the memory using the code and the secret further comprises: receiving a challenge from the memory; and transmitting a response to the memory including at least an indication of the secret to the memory, in response to receiving the challenge” is shown in ‘104 col. 4, lines 21-67.

As to dependent claim 3-14, these claims contain substantially similar subject matter as claims 17, 18, 19, 56, 61, 19, 57, and 58; therefore they are rejected along the same rationale.

As to dependent claim 28-31, these claims contain substantially similar subject matter as claims 23, 56, and 57; therefore they are rejected along the same rationale.

As to independent claim 39, this claim is directed to a computer system of the method of claim 55 therefore it is rejected along the same rationale.

As to dependent claims 40-49, these claims contain substantially similar subject matter as claims 17-20 and 55-63; therefore they are rejected along the same rationale.

**As to dependent claim 50, “wherein the master device includes a microprocessor”** is taught in ‘104 col. 4, lines 21-67.

**As to independent claim 51**, this claim is directed to a computer system of the method of claim 55 therefore it is rejected along the same rationale.

**As to dependent claims 52-54**, these claims contain substantially similar subject matter as claims 17-20 and 55-63; therefore they are rejected along the same rationale.

**As to independent claim 64**, this claim is directed to a computer system of the method of claim 32 therefore it is rejected along the same rationale.

**As to dependent claims 65**, this claim contains substantially similar subject matter as claim 38; therefore it is rejected along the same rationale.

**As to independent claim 66**, this claim is directed to a computer readable program of the method of claim 55 therefore it is rejected along the same rationale.

**As to dependent claims 67-90**, these claims contain substantially similar subject matter as claims 17-20 and 55-63; therefore they are rejected along the same rationale.

**As to independent claim 97**, this claim is directed to a computer readable program of the method of claim 32 therefore it is rejected along the same rationale.

**As to dependent claims 98-103**, these claims contain substantially similar subject matter as claims 33-38; therefore they are rejected along the same rationale.

### Conclusion

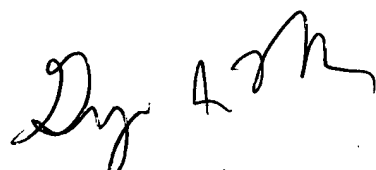
11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ellen C Tran whose telephone number is

(571) 272-3842. The examiner can normally be reached from 6:30 am to 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory A Morse can be reached on (571) 272-3838. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ellen Tran  
Patent Examiner  
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25 May 2005



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